C3.158: M3-1(78)-9

CURRENT INDUSTRIAL REPORTS



U.S. Department of Commerce BUREAU OF THE CENSUS



September 1978

For Release 2:30 P.M., Wednesday, November 1, 1978

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured products increased \$0.4 billion or 0.3 percent to \$131.4 billion in September, the Department of Commerce, Bureau of the Census reported today. Durable goods new orders were valued at \$72.3 billion up \$0.7 billion or 1.0 percent from August. Excluding transportation equipment, orders for durable goods rose \$0.8 billion or 1.5 percent to \$53.9 billion. Wide fluctuations in new orders for aircraft and shipbuilding have been affecting the movement of new orders for the last several months. This results in part from difficulty in seasonally adjusting data for these industries especially for defense new orders. This is discussed further below.

Shipments of manufactured products remained virtually unchanged from the August level of \$127.9 billion. Durable goods shipments showed an increase of \$0.2 billion or 0.3 percent to \$68.9 billion while nondurable goods shipments declined \$0.2 billion or 0.4 percent to \$59.0 billion.

Unfilled orders for durable goods continued to rise in September with a \$3.4 billion or 1.6 percent increase to \$213.4 billion. During the last year backlog has increased steadily by an average of 1.8 percent per month. Manufacturers' inventories at the end of September amounted to \$194.1 billion, a \$1.2 billion or 0.6 percent increase over the August level.

The 1.5 percent rise in durable goods new orders, excluding transportation equipment, was caused by blast furnaces and steel mill products, up \$0.6 billion or 11.1 percent to \$5.8 billion, nonelectrical machinery up \$0.8 billion or 7.1 percent to \$12.7 billion, electrical machinery, up \$0.1 billion or 1.6 percent to \$8.9 billion, and the instruments and related products, up \$0.1 billion or 4.7 percent to \$2.8 billion. Offsetting declines occurred in fabricated metal products of \$0.3 billion or 3.7 percent to \$8.0 billion, nonferrous and other primary metal products of \$0.2 billion or 5.0 percent to \$4.3 billion, and all other durable goods industries of \$0.3 billion or 4.0 percent to \$6.6 billion. All of these declines followed on sizeable increases in August new orders.

New orders for the nondefense capital goods industries rose \$0.7 billion or 3.5 percent to \$20.0 billion, with the main contributors being nonelectrical machinery, communication equipment and shipbuilding. Declines were reported by the complete aircraft and railroad equipment industries. New orders for the household durable goods series dropped \$0.1 billion or 2.5 percent to \$4.5 billion after an August increase of 13.0 percent.

Shipments of durable goods for September were up 0.3 percent or \$0.2 billion to \$68.9 billion. The major increase was reported by the aircraft and parts industries which went up \$0.6 billion or 15.5 percent to \$4.1 billion. The blast furnace and

steel mill industry also increased their shipments by \$0.2 billion or 3.0 percent. The nondurable goods industries reported a \$0.2 billion decline in shipments. Increases in the chemicals, petroleum and coal industries were offset by declines in the food and rubber and all other nondurable goods industries.

Shipments for the capital goods industries as a group showed an increase of \$0.9 billion or 4.2 percent to \$21.3 billion with both defense and nondefense shipments increasing by the same relative amounts. The household durable goods category declined \$0.1 billion or 2.3 percent to \$4.3 billion.

Increases in the order backlog for durable and nondurable goods were evidenced in most major industry groups. The only declines were in stone, clay, and glass products; fabricated metal products; and the miscellaneous durable goods industries.

Inventories of durable and nondurable goods manufacturers showed identical percentage increases of 0.6 percent in September. The durable goods industries increase of \$0.8 billion to \$126.0 billion resulted from increases in the transportation industries of \$0.3 billion and by the machinery industries of \$0.3 billion.

It should again be noted that for all of the defense capital goods series, modified seasonal adjustment factors were used to account for the change in the Federal Government's fiscal year from a July 1 through June 30 basis to an October 1 through September 30 basis in 1976. These factors were introduced in the July 1977 data and will continue to be used until a sufficient amount of data are available to assess the impact of the change in fiscal year. Further seasonal adjustment modifications are made for motor vehicle assembly plants which during July, August, and September, are closed down to allow for retooling for the forthcoming model year. Year-to-year variations in both the timing and duration of the model changeover period are sufficiently great that the normal seasonal adjustment procedures do not adequately identify the seasonality during the period and may introduce substantial erratic movements. To compensate for this, the estimated seasonally adjusted quarterly average is used for the seasonally adjusted data in each of the 3 months. The unadjusted data are not subject to any special

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for October is scheduled for release on Novemebr 22, 1978 and the full report is scheduled for release on December 4, 1978.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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Table 1. --VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

| | | | | Seasonally | ly adjusted | | | | | | | Without | out seasonal | al adjustment | lent 1 | | | |
|--|---|---|------------------|---------------|---------------------------|----------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|---------------------------|------------------------------|
| Monthly | Monthly | Monthly | thly | - 1 | | or . | Quarterly | | | | | Monthly | 113 | | | | Year to | date |
| Aug. July | Aug. July | July | | Ju | ne ne | 111 | II | ы | | Last 4 m | months | | Last | 4 months | (a year ago) | 3 | | |
| 1978 ^p 1978 1978 1978 | 1978r 1978 | 1978 | | 1978 | | 1978 | 1978 | 1978 | Sept. 1978P | Aug. 1978 ^r | July 1978 | June 1978 | Sept. 1977 | Aug. 1977 | July 1977 | June 1977 | 1978 | 1977 |
| | | | | | | | ALL M | MANUFACTURING, | NG, DURABLE | AND | NONDURABLE GOODS, | S, TOTAL | | | | | | |
| All manufacturing industries: 127,842 127,871 123,106 124, | . 127,842 127,871 123,106 | 123,106 | | 124, | 124,839 | 378,819 | 372,942 | 354,405 | 133,870 | 126,166 | 114,380 | 131,727 | 117,609 | 110,477 | 102,678 | 117,134 | 1,108,300 | 990,580 |
| . 111,134 111,547 107,596 | . 111,134 111,547 107,596 | 107,596 | Laborer - Marrie | 106 | 108,952 | 330,277 | 324,796 | 309,133 | 116,487 | 112,308 | 101,195 | 114,187 | 102,784 | 079,86 | 996,68 | 101,301 | 967,286 | 864,718 |
| filled orders | . 68,504 68,388 65,103 | 65,103 | | 9 | 762,29 | 201,995 | 196,146 | 185,147 | 71,501 | 67,277 | 59,655 | 796,69 | 61,626 | 57,557 | 52,491 | 61,390 | 583,589 | 513,363 |
| Durable goods industries, total. 68,870 68,684 65,222 | 68,870 68,684 65,222 | 65,222 | | | 66,293 | 202,776 | 198,203 | 187,507 | 72,289 | 65,991 | 59,296 | 71,839 | 61,989 | 56,253 | 52,831 | 62,943 | 589,816 | 517,861 |
| Durable goods with unfilled 55,659 55,363 52,241 5 | 55,363 52,241 | 52,241 | | 5 | 53,057 | 163, 263 | 157,909 | 149,000 | 57,959 | 54,025 | 47,838 | 56,955 | 49,291 | 45,550 | 41,896 | 49,516 | 470,927 | 410,578 |
| Nondurable goods industries, 58,972 59,187 57,884 5 | 59,187 57,884 | 57,884 | | U.S | 945,86 | 176,043 | 174,739 | 166,898 | 61,581 | 60,175 | 55,084 | 59,888 | 55,620 | 54,224 | 49,847 | 54,191 | 518,484 | 472,719 |
| Nondurable goods with unfilled 12,845 13,025 12,862 orders | 12,845 13,025 12,862 | 12,862 | | | 12,740 | 38, 732 | 38,237 | 36,147 | 13,542 | 13,252 | 11,817 | 13,009 | 12,335 | 12,007 | 10,595 | 11,874 | 112,662 | 102,785 |
| | | | | | | | | MARKET C | CATEGORIES # | AND SUPPLEMENTAL | MENTAL SERIES | ES . | | | 10 | 100 | 10/3 | |
| Market categories: Home goods and apparel 9,627 9,809 9,291 Consumer staples 22,724 22,855 22,300 2 | 9,627 9,809 9,291 22,724 22,855 22,300 | 9,809 9,291 22,855 22,300 | | 2 | 9,532 | 28,727 67,879 | 28,538 | 27,235 | 10,671 24,024 | 10,651 23,026 | 8,544 | 9,714 | 9,654 | 9,423 | 7,783 | 8,750 | 86, 242 199, 419 | 75,250 |
| 18,248 -17,606 16,838 12,847 12,963 12,340 | 18,248 -17,606 16,838 12,847 12,963 12,340 | 17,606 16,838 12,963 12,340 | | | 16,968 | 52, 692 38, 150 | 49,809 | 46,925 | 18,443 | 16,608 | 15,513 | 18,406 | 15,500 | 14,179 | 13,560 | 15,683 | 149,140 | 131,203 |
| 11,002 11,200 10,605 | 11,002 11,200 10,605 | 10,605 | | 10 | 10,786 | 32,807 | 32,090 | 29,736 | 11,746 | 11,959 | 10,502 | 11,890 | 10,102 | 9,887 | 8,820 | 9,982 | 95,776 | 81,181 |
| Other materials and supplies 53,394 53,438 51,732 5 and intermediate products | 53,438 51,732 | 51,732 | | 2 | 52,445 | 158,564 | 156,286 | 149,365 | 55,312 | 53,018 | 48,070 | 54,791 | 648,84 | 968,94 | 43,506 | 49,291 | 466,728 | 420,887 |
| 4,345 4,447 4,155 21,266 20,409 19,574 18,323 17,598 16,819 | 4,345 4,447 4,155 21,266 20,409 19,574 18,323 17,598 16,819 | 4,447 4,155 20,409 19,574 17,598 16,819 | | 4 19 16 | 4,361 19,653 16,782 | 12,947 61,249 52,740 | 12,863 58,247 49,637 | 12,158 55,411 47,081 | 4,902 21,705 18,619 | 4,707 19,211 16,509 | 3,608 17,966 15,360 | 4,492 21,255 18,268 | 4,293 18,087 15,299 | 4,028 16,384 13,937 | 3,171 15,693 13,182 | 3,916 -17,984 15,219 | 174,244 | 32,616 150,979 127,614 |
| 2,943 2,811 2,755 | 2,943 2,811 2,755 | 2,755 | | 2,8 | 1,1 | 8,509 | 8,610 | 8,330 | 980 | 2,702 | 2, 506 | 7,987 | 2,788 | /55,444 | 2,511 | 7,700 | 25, 243 | 73,300 |
| | | | | | - | | | IND | INDUSTRY GROUD | PS AND IND | INDUSTRIES | | | | ! | | | |
| Durable grods industries: Stone, clay, and glass products | 3,753 3,791 3,644 3 | 3,791 3,644 3 | m | m m | 294 | 11,188 | 11,087 | 9,873 | 4,069 | 4,081 | 3,581 | 4,039 | 3,198 | 3,294 | 2,865 | 3,259 | 32,498 | 26,337 |
| 10,274 10,346 9,905 5,214 5,064 5,030 | 10,274 10,346 9,905 5,214 5,064 5,030 | 10,346 9,905 5,064 5,030 | | | 9,860 | 30,525 15,308 | 29,312 | 27,677 | 10,674 5,344 | 10,110 | 9,131 | 10,609 | 8,956 | 8,373 | 7,844 | 9,504 | 88,639 | 77,754 |
| Monterrous and other primary 3,996 4,267 3,823 | 3,996 4,267 | 4,267 | 3,823 | | 3,786 | 12,086 | 11,260 | 11,055 | 4,236 | 4,083 | 3,540 | 4,123 | 3,498 | 3,189 | 3,023 | 3,629 | 34, 698 | 30,821 |
| tal. 8,134 8,241 7,539 7 | 8,134 8,241 7,539 7 | 7,539 7 | 7 | 7 | 6684 | 23,914 | 23,792 | 22,433 | 8,566 | 8,393 | 7,158 | 8,510 | 7,633 | 7,217 | 6,398 | 7,681 | 70,654 | 63,489 |
| drums | 781 | | 741 | | 817 | 2,308 | 2,434 | 2,311 | 924 | 936 | 855 | 918 | 864 | 876 | 196 | 856 | 7,345 | 6,763 |
| 11, 12,042 11,831 11,454 111,038 1,038 1,038 1,038 1,038 | 12,042 11,831 11,454 11 1,113 1,083 1,038 974 1,015 | 11,831 11,454 11 1,083 1,038 1,015 941 | | 11 | ,425 932 964 | 35,327 3,234 2,930 | 33,880 2,862 2,781 | 31,793 2,904 2,604 | 12,324 1,175 984 | 11,074 966 898 | 10,446 | 12,453 1,012 1,049 | 10,381 903 857 | 9,510 750 819 | 8,946 | 10,423 837 958 | 101,425 8,960 8,556 | 88,114 7,385 8,342 |
| material handling employment 2,352 2,289 2,411 Metalworking mathinery 747 739 680 General industrial mathinery 931 931 951 933 | 2, 352 2,289 2,411 747 739 680 931 961 933 | 2,289 2,411 739 680 961 933 | | | 2,288 676 921 | 7,052 2,166 2,825 | 6,858 1,979 2,787 | 6,521 1,827 2,632 | 2,387 | 2,234 654 911 | 2,327 594 866 | 2,490 | 2,019 581 899 | 1,887 488 869 | 1,838 465 743 | 2,060 604 850 | 20,795 | 17,201 4,720 7,382 |
| See footnotes at end of table. | | | | | | | • | | | | | | | | | | | |

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

| | Without soasonal adjustment ¹ | Monthly Yoar to date | Last 4 months Last 4 months (a year ago) | Aug. July Juno Sopt. Aug. July Juno 1977 1977 1977 | 1978 ^r 1978 1977 1977 1977 |) INDUSTRIESContinued | 8,273 7,271 8,627 7,699 7,060 6,501 7,470 72,307 62,767 | 1,325 1,532 1,341 1,264 1,126 1,375 13,113 940 886 860 964 9,126 | 667 607 524 2,439 1,989 1,812 1,248 1,214 1,158 | 13, 185 17, 540 14, 825 11, 837 18, 645 12, 035 10, 229 7, 826 | 3,070 3,781 3,122 2,716 2,796 3,235 | 624 654 688 570 539 589 649 5,693 5,309 | 2,716 2,390 2,626 2,376 2,136 2,151 2,315 23,099 21,022 1,523 1,486 1,643 1,428 1,290 1,199 1,394 11,395 11,892 1,001 886 988 881 81,10 7,231 | 7,486 6,134 7,235 6,737 6,586 5,414 6,258 60,180 52,516 | 18,209 16,983 18,024 16,560 16,200 15,037 16,205 157,621 142,097 4,848 4,575 4,707 4,689 4,112 3,860 4,014 41,570 35,440 2,256 2,134 2,449 1,695 1,907 1,907 1,676 1,676 35,440 1,554 1,331 1,459 1,246 1,229 1,309 1,314 12,251 1,000 7,349 6,595 7,159 7,169 6,719 5,822 6,577 64,349 59,281 | 968 821 1,003 806 832 765 820 7,931 7,080 3,744 3,618 3,667 3,483 2,859 3,563 32,712 30,071 | 5,007 4,592 5,066 4,413 4,501 4,064 4,639 42,872 39,369 2,081 2,020 2,232 1,937 2,007 1,167 1,014 1,223 1,711 1,723 1,724 1,417 1,269 1,496 1,462 12,223 | 10,241 9,605 11,161 10,055 9,465 8,669 9,930 94,859 86,155 | 31,580 | 8,721 8,077 8,083 8,087 7,964 76,143 | 3,544 3,001 3,491 3,239 3,094 2,797 3,275 29,798 27,586 | |
|-----------------------|--|----------------------|--|--|---------------------------------------|-----------------------|---|--|---|--|-------------------------------------|---|---|---|--|---|--|--|---------------------------------------|--------------------------------------|---|--|
| | | | (02 | Juno 1977 | 1977 | | 7,470 | 1,375 | 541 1,993 1,259 | 15,833 | 3,235 | 679 | 2,515 1,394 881 | 6,258 | 16,205 4,014 2,115 1,314 6,577 | 3,563 | 4,639 2,074 1,069 1,496 | 9,930 | 3,449 | 7,964 | 3,275 | |
| | ment1 | | (a year | July 1977 | 1977 | | 6,501 | 1,126 | 1,753 | 12,712 | 2,796 | 589 | 2,151 1,199 775 | 5,414 | 15,037 3,860 1,907 1,309 5,822 | 765 | 4,064 1,877 918 1,269 | 8,669 | 3,054 | 8,087 | 2,797 | |
| | al adjust | | 4 | Aug. 1977 | 1977 | | 7,060 | 1,264 | 524 1,812 1,158 | 11,837 | 2,716 | 539 | 2,376 1,290 868 | 985,9 | | 3,483 | 4,501 2,007 1,077 1,417 | 9,465 | 3,258 | 8,083 | 3,094 | |
| | ont soasor | hly | Last | Sopt. 1977 | 1977 | | 7,699 | 1,341 | 1,989 1,214 | 14,825 | 3,122 | 570 | 2,560 1,428 900 | 6,737 | 16,560 4,059 1,895 1,246 7,108 | 3,667 | 4,413 1,937 1,052 1,424 | 10,055 | 3,358 | 8,077 | 3,239 | |
| | With | Mont | | Juno 1978 | 1978 | ned | 8,627 | 1,532 | 667 2,439 1,248 | 17,540 | 3,781 | 889 | 2,826 1,643 | 7,235 | 18,024 4,707 2,349 1,459 7,159 | 1,003 | 5,066 2,232 1,123 1,711 | 11,161 | 3,691 | 8,721 | 3,491 | |
| | | | onths | July 1978 | 1978 | ESContin | 7,271 | 1,325 | 519 1,989 1,121 | 13,185 | 3,070 | 959 | 2,390 1,348 886 | 6,134 | 16,983 4,575 2,194 1,331 6,595 | 3,100 | 4,592 2,020 1,014 1,558 | 9,605 | 3,270 | 8,679 | 3,001 | |
| | | | 4 | Aug. 1978r | 1978 ^r | D INDUSTRI | 8,273 | 1,466 | 2,229 1,193 | 13,858 | 3,267 | 624 | 2,716 1,523 1,001 | 7,486 | 18,209 4,848 2,256 1,354 7,349 | 3,744 | 5,007 2,081 1,167 1,759 | 10,241 | 3,453 | 8,926 | 3,544 | |
| rs) | | | | Sopt. 1978p | | GROUPS, AND | 9,033 | 1,545 | 763 2,558 1,327 | 17,383 | 4,033 | 628 | 2,868 1,597 1,059 | 7,372 | 18,661 4,820 2,268 1,375 7,741 | 3,926 | 4,975 2,015 1,136 1,824 | 10,892 | 3,488 | 9,162 | 3,514 | |
| (Millions of dollars) | | - | , | 1978 | | INDUSTRY GROUPS, | 23,523 | 4,345 | 1,630 6,343 3,626 | 45,272 | 9,612 | 1,827 | 7,468 | 19,468 | 51,000 13,330 5,825 3,824 21,374 | 2,574 | 13,736 6,128 3,123 4,485 | 30,593 | 10,112 | 24,191 | 9,531 | |
| (Millions | | Quarterly | | 1978 | | | 24,215 | 4,262 | 1,865 | 48,146 | 10,093 | 1,998 | 7,845 | 19,926 | 53,634 14,369 6,163 4,302 21,776 | 2,709 | 14,361 6,378 3,262 4,721 | 31,689 | 10,518 | 25,272 | 9,832 | |
| | | <u>څ</u> | | 1111 | | | 25,084 | 4,506 | 7,113 | 48,542 | 10,975 | 1,961 | 7,989 | 20,207 | 53,560 14,109 6,546 4,139 21,553 | 2,666 11,028 | 14,540 6,165 3,283 5,092 | 30,961 | 10,415 | 26,577 | 10,191 | |
| | Soasonally adjusted | | | Juno 1978 | | | 8,167 | 1,423 | 2,324 1,221 | 15,887 | | 632 | 2,674 1,555 931 | 6,661 | 17,844 4,669 2,043 1,483 7,268 | 3,606 | 4,815 2,164 1,086 1,565 | 10,719 | 3,563 | 8,590 | 3,283 | |
| | Soasonall | ıly | | July 1978 | | | 8,071 | 1,512 | 2,178 1,264 | 15,510 | 3,304 | 684 | 2,579 1,474 918 | 6,520 | 17,599 4,635 2,101 1,445 7,045 | 824 3,639 | 4,861 2,132 1,064 1,665 | 10,399 | 3,483 | 8,600 | 3,258 | |
| | | Menthly | | Aug. 1978 ^r | | | 8,495 | 1,518 | 2,368 | 16,324 | 3,559 | 668 | 2,714 | 6,942 | 18,122 4,767 2,243 1,347 7,334 | 921 | 4,859 2,016 1,128 1,715 | 10,188 | 3,485 | 8,863 | 3,515 | |
| | | | | Sopt. | | | 8,518 | 1,476 | 2,567 1,258 | 16,708 | 4,112 | 609 | 2,696 1,529 980 | 6,745 | 17,839 4,707 2,202 1,347 7,174 | 921 | 4,820 2,017 1,091 1,712 | 10,374 | 3,447 | 9,114 | 3,418 | |
| | | | Industry | | | | Electrical machinery, total | distribution equipment and industrial apparatus | Radio and TV. Communication equipment. | Transportation equipment, total | Aircraft, missiles, and parts. | Shippullding and military tank vehicles | Instruments and related products, total | All other durable goods industrios | Food and kindred products, total. Meat products Reverages. Fats and oils. | Tobacco products | Paper and allied products, total. Pulb, paper, etc. Paperboard containers. All other paper containers. | Chemicals and allied products, total | Industrial chemicals, oxcopt pigments | Petroleum and coal products | n.e.c. | |
| | | | SIC | | | | 36 | | 365 366 367 | 37. | 372,6 | 3731 3795 | 38 381-4 386 | 24 25 39 | 20 201 208 207 203-6,9 | 21 22 | 26 261-3 265 264 | 28 | 281,0 | 30 | | |

Preliminary. They seed in the period and are adjusted for trading-day and calendar-month variations; unfilled orders and invontories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

personal goods.

Capital goods industries.—The capital goods industries series is comparable to the previous Preducers' Capital goods and the Defense Products (old scrites) categories.

Capital goods industries.—Anothinery, except electrical (excluding farm machinery and equipment and machiners and scrites), electrical machinery (excluding household appliances, radio and TV and electronic components) and replaced octahonery, except electrical prevents and error and exclusive, and eventually and radio-profit and radio-profit in the Communication equipment, alternate nations of shipbuilding, and replaced octahoners of page contractors in the following industries: Ordinance, communication equipment, alreraft parts, and shipbuilding. The Defense products—Dasso published annually in the Ma-175, Shipments of Posics—Ordinance, for the specified industries.

Household durable goods industries - Household furniture; kitchen articles and pettery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous

Table 2, -- VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES

| | | | | vileaceas | mally adjusted | po | | | | | | A F M | Leacacan fundity | I toomtoning to | l tuo | | | |
|------------|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|------------------------------|------------------------------|
| | | | | | | | | | | | | | | | | | | |
| | | | Mon | Monthly | | | Quarterly | | | | | Monthly | ıly | | | | Year to | date |
| SIC | Industry | ţ | | | | | | | | Last 4 m | months | | Last | 4 months | (a year ago | (0) | | } |
| | | 1978P | Aug. 1978 | July 1978 | June 1978 | 1978 | 1978 | 1978 | Sept, | Aug. 1978 | July 1978 | June 1978 | Sept. 1977 | Aug. 1977 | July 1977 | June 1977 | 1978 | 1977 |
| | | | | | | | ALL | MANUFACTUR | ING, DURABLE | AND | NONDURABLE GOO | GOODS, TOTAL | | | | | | |
| | All manufacturing industries; | 131,372 | 130,952 | 123,279 | 127,580 | 385,603 | 384,205 | 366, 244 | 136,192 | 129,873 | 117,023 | 134,171 | 117.770 | 111,623 | 103,795 | 118,079 | 1,139,045 | 1,000,550 |
| | Total, excluding trans- | 112,949 | 112,436 | 108,053 | 109,627 | 333,438 | 330,512 | 317,018 | 117,091 | 113,650 | 102,875 | 115,099 | 102,948 | 586'66 | 91,043 | 101,370 | 697'586 | 872,868 |
| | Total for industries with unfilled orders | 72,034 | 71,469 | 65.276 | 68,538 | 208,779 | 207.409 | 196,986 | 73,823 | 70,984 | 62.298 | 72,408 | 61,787 | 58,703 | 53,608 | 62,335 | 614,334 | 523,333 |
| | Durable goods industries, | 72,297 | 71,582 | 65,187 | 08,840 | 209,066 | 208,918 | 199,032 | 74,624 | 69,713 | 61,702 | 74,237 | 62,243 | 57,598 | 53.776 | 63,955 | 619,116 | 527,271 |
| | Durable goods with unfilled orders | 980,65 | 58,261 | 52,206 | 55,604 | 169,553 | 168,624 | 160,525 | 60,294 | 57,747 | 50,244 | 59,353 | 575,67 | 568'95 | 42,841 | 50,528 | 500,227 | 419,988 |
| | Nondurable goods industries, total | 59,075 | 59,370 | 58,092 | 58,740 | 176,537 | 175,287 | 167,212 | 61,568 | 60,160 | 55,321 | 59,934 | 55,527 | 54,025 | 50,019 | 54,124 | 519,929 | 473,279 |
| | Industries with unfilled orders | 12,948 | 13,208 | 13,070 | 12,934 | 39,226 | 38,785 | 36,461 | 13,529 | 13,237 | 12.054 | 13,055 | 12,242 | 11,808 | 10,767 | 11,807 | 114,107 | 103,345 |
| | Industries without unfilled orders. | 46,127 | 46,162 | 45,022 | 45,806 | 137,311 | 136,502 | 130,751 | 48,039 | 46,923 | 43,267 | 628,97 | 43,285 | 42,217 | 39,252 | 42,317 | 405,822 | 369,934 |
| | | | | | | | | MARKET CA | CATEGORIES A | AND SUPPLEMENTARY | ENTARY SERIES | IES | - | | | | | |
| | Market categories: Home goods and apparel | 9,768 | 9,955 | 9,177 | 9,398 | 28,900 | 28,555 | 27,389 | 10,773 | 10,793 | 8,742 | 9,738 | 9,626 | 9,716 | 8,116 | 8,802 | 85,163 | 76 262 180 499 |
| | Equipment and detense products, except automotive | 20,291 | 19,485 | 16,204 | 18,317 | 55,980 | 56,035 | 53,262 | 20.585 | 18,705 | 16,343 | 19,621 | 15,724 | 13,897 | 14,101 | 17,163 | 164.753 | 134,116 |
| | Construction materials, sup- plies, and intermediate prods. | 10,563 | 10,986 | 10,437 | 10,690 | 31,986 | 32,508 | 30,825 | 11,354 | 11,813 | 10,466 | 11,910 | 10,103 | 10,018 | 8,845 | 10,080 | 96, 668 | 81 745 |
| | Other materials and supplies and intermediate products | 54,923 | 54,686 | 52,902 | 54,037 | 162,511 | 160,697 | 153,086 | 55,554 | 54,380 | 879,67 | 56,001 | 886,87 | 47,552 | 43,619 | 48,525 | 478,951 | 425 265 |
| | Supplementary series: Household durable goods indus- | 057,4 | 4,563 | 4,039 | 4,263 | 13,052 | 12,926 | 12,254 | 696'7 | 4,847 | 3.786 | 4,539 | 4,258 | 4,335 | 3,474 | 3,956 | 38,556 | 33,542 |
| | Capital goods industries Nondefense | 23,553 20,017 3,536 | 22,701 19,344 3,357 | 19,355 17,074 2,281 | 21,592 18,155 3,437 | 65,609 56,435 9,174 | 65,234 53,688 11,546 | 61,912 51,900 10,012 | 23,962 20,282 3,680 | 21.766 19.054 2.712 | 19,501 16,821 2,680 | 22,835 19,281 3,554 | 18,622 16,349 2,273 | 16,285 14,292 1,993 | 16,070 13,721 2,349 | 19,265 16,534 2,731 | 191,966 162,204 29,762 | 154 949 133,602 21,357 |
| | | | | | | | | 118 | INDUSTRY GROUPS | AND | 1NDUSTR1ES | | | | | - | | |
| 32 | Durable goods industry: Stone, clay and glass | 3,695 | 3,719 | 3,587 | 3,763 | 11,001 | 11,129 | 10,121 | 3,993 | 3,993 | 3,519 | 4,092 | 3,196 | 3,304 | 2,827 | 3,240 | 32,706 | 26,583 |
| 331 | Pr | 11,190 | 10,876 | 10,095 | 10,428 | 32,161 16,092 | 31,490 | 30,031 | 10,608 | 10,718 | 9,196 | 11,019 | 8,605 | 8,805 | 7,854 | 8,851 | 94,186 | 79,320 |
| 333-5,9 | Nonferrous and other primary metal products | 4,277 | 4,504 | 3,850 | 3,954 | 12,631 | 11,722 | 11,401 | 4,289 | 4,296 | 3,474 | 4,163 | 3,376 | 3,339 | 2.972 | 3,493 | 35,962 | 30,988 |
| 34 | Fabricated metal products | 7,990 | 8,294 | 7,524 | 7,736 | 23,808 | 24,537 | 23,442 | 8,681 | 8,554 | 7,369 | 8,583 | 7,772 | 7,254 | 6,447 | 7.749 | 72,761 | 63,798 |
| 351 | Machinery, except electrical, total. Engines and turbines. | 12,666 | 11,830 | 11,669 | 11,477 | 36,165 | 34,885 | 33,618 | 12,634 | 11,372 | 11,022 | 12,562 | 10,523 | 10,082 | 9,182 | 10,997 | 105,367 | 90,406 |
| 354 356 | Construction, mining, and construction, mining, and material handling equipment Metalworking machinery General industrial machinery | 2,410 851 893 | 2,066 844 910 | 2,523 913 983 | 2,095 | 6,999 2,608 2,786 | 7,068 2,350 2,701 | 7,086 2,240 2,770 | 2,356 847 957 | 2,053 | 2,470 802 936 | 2,403 878 1,056 | 2,000 608 | 2,007 | 1,809 | 2,100 658 958 | 21, 605 7, 218 8, 341 | 17,323 5,184 7,735 |
| See | See footnotes at end of table. | | | | | | | | | | | | | | | | | |

Table 2. -- VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES -- Continued

| | | | | | | | | (control to constitute) | 15 | | | | | | | | | |
|----------------|---|--------|-------------------|--------------|---------------------|--------|-----------|-------------------------|--|--------------|--------------|--------------|-----------------------------|--------------|--------------|--------------|--------------|--------------|
| | | | | Seaso | Seasonally adjusted | ted | | | | | Witho | ut seasona | Without seasonal adjustment | nt1 | | | | |
| | | | Monthly | thly | | | Quarterly | | | | | Monthly | 1y | | | | rear to date | anne |
| SIC | Industry | | | | | | | , | | Last 4 m | months | | Last | 4 months | (a year ago) | (0 | | |
| | | Sept. | 1978 [†] | July 1978 | June 1978 | 1978 | 1978 | 1978 | Sept, | Aug. 1978 | July 1978 | June 1978 | Sept. 1977 | Aug. 1977 | July 1977 | June 1977 | 1978 | 1977 |
| | | · | | | | | | INDUSTR | INDUSTRY GROUPS AND INDUSTRIES Continued | ND INDUSTR | IESConti | ned | | | | | | |
| 36 | Electrical machinery, total Electrical transmission and | 8,868 | 8,730 | 7,902 | 8,239 | 25,500 | 25,217 | 25,213 | 9,448 | 8,631 | 7,583 | 8,788 | 7,849 | 7,374 | 6,901 | 7,650 | 76,042 | 64.689 |
| 363 | distribution equipment and industrial apparatus. | 1,599 | 1,528 | 1,431 | 1,444 | 4,558 | 4,315 | 4,735 | 1,640 | 1,518 | 1,352 | 1,512 | 1,366 | 1,256 | 1,147 | 1,255 | 13,725 9,182 | 11,481 7,609 |
| 365 | Radio and TV. | 903 | 2,489 | 1,974 | 695 | 2,321 | 2,013 | 1,526 | 1,043 | 876 2,349 | 509 | 741 | 453 | 1,766 | 427 | 594 2,067 | 5,725 | 4,273 |
| 367 | Electronic components | 1,217 | 1,214 | 1,437 | 1,280 | 3,868 | 3,977 | 4,147 | 1,278 | 1,215 | 1,330 | 1,361 | 1,314 | 1,273 | 1,154 | 1,390 | 12,153 | 11,349 |
| 37 | Transportation equipment, | 18,423 | 18,516 | 15,226 | 17,953 | 52,165 | 53,693 | 49,226 | 19,101 | 16,223 | 14,148 | 19,072 | 14,822 | 11,638 | 12,752 | 16,709 | 153,576 | 127,682 |
| 372,6 | Aircraft, missiles, and parts | 5,360 | 2,460 | 3,298 | 5,677 | 14,118 | 15,452 | 11,735 | 5,490 | 5,278 | 3,959 | 5,233 | 3,473 | 2.724 | 2.970 | 4.097 | 39,986 | 28,324 |
| 3731 3795 | Shipbuilding and military tank vehicles | 979 | 165 | 422 | 301 | 1,659 | 1,377 | 2,787 | 572 | 370 | 909 | 519 | 323 | - 18 | 382 | 609 | 5,819 | 3,955 |
| 38 | Instruments and related products | 2,840 | 2,713 | 2,712 | 2,689 | 8,265 | 8,050 | 7,753 | 2,977 | 2,758 | 2,551 | 2,909 | 2,646 | 2,470 | 2,188 | 2,510 | 23,966 | 21,445 |
| 24 25 39 | All other durable goods industries | 6,625 | 6,904 | 6,472 | 6,555 | 20,001 | 19,917 | 19,628 | 7,182 | 7,464 | 6,314 | 7,212 | 6,830 | 6,671 | 5,625 | 6,249 | 60,512 | 53,348 |

Phreliminary. Revised.

The vised or orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for tradifications.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture: kitchen articles and pottery; outlery, handtools, and hardware; household appliances; radio and TV; opthalmic goods, watches, and elocks and miscellancous personal goods.

radio and TV and electronic components), and the

The Capital goods industries - The capital goods industries is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and equipment, and equipment, on an action of equipment, on a strange and repairing and rallroad equipment, communication equipment, aircraft parts, and ordnance.

Nondefense products--Based on separate reports on defense work filed edefense contractors in the following industries; Ordnance, communication equipment, aircraft parts, and shipbuilding. data are comparable to those published annually in the MA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 3, -- VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENT SERIES

| | | | | | | | (Millions | ons of dollars) | ars) | | | | | | | | | |
|------------------|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| | | | | | Seasonally | ally adjusted | pe | | | | | | Without | out seasonal | al adjustment ¹ | ent 1 | | |
| | | | Mor | Monthly | | | | Quarterly | | | | | | Monthly | hly | | | ١ |
| SIC | Industry | | | | | | | | | | | Last 4 m | months | | Last | t 4 months | (a year ago) | 0) |
| | | Sept. 1978P | Aug. 1978 ^r | July 1978 | June 1978 | I 1978 | 1V 1977 | 111 | 111 | 1 1977 | Sept. 1978P | Aug. 1978r | July 1978 | June 1978 | Sept. 1977 | Aug. 1977 | July 1977 | June 1977 |
| | | | | | | | ALL | | MANUFACTURING, DURABLE | AND | NONDURABLE GO | GOODS, TOTAL | | | | | | |
| | All manufacturing industries: | 223,532 | 219,999 | 216,922 | 216,754 | 205,500 | 193,659 | 183,547 | 182,816 | 178,469 | 223,768 | 221,444 | 217,738 | 215,098 1 | 183,975 | 183,813 | 182,667 | 181,550 |
| | Total, excluding trans- | 149,881 | 148,061 | 147,177 | 146,725 | 141,020 | 133,132 | 128,624 | 126,598 | 125,386 | 150,356 | 149,752 | 148,411 | 146,734 1 | 29,178 | 129,014 | 127,669 | 126,592 |
| | Durable goods industries, total | 213,351 | 209,922 | 207,026 | 207,067 | 196,359 | 184,834 | 174,966 | 174,363 | 169,938 | 213,770 | 211,434 | 207,714 | 205,310 | 175,551 | 175,296 | 173,951 | 173,006 |
| | Nondurable goods industries, total | 10,181 | 10,077 | 96846 | 6,687 | 9,141 | 8,825 | 8,581 | 8,453 | 8,531 | 886,6 | 10,010 | 10,024 | 9,788 | 8,424 | 8,517 | 8,716 | 8,544 |
| | | | | | | | | MARKET CA | CATEGORIES A | AND SUPPLEMENTARY | ENTARY SERIES | 1 ES | | | | | | |
| | Market categories; Home goods and apparel Consumer staples | 4,523 | 4,396 | 4,266 | 4,329 | 4,285 | 4,091 | 3,889 | 3,498 | 3,381 | 4,860 | 4,736 | 4,591 | 4,360 | 4,171 | 4,211 | 3,883 | 3,522 |
| | ucts, except automotive | 127,170 | 124,857 | 122,938 | 123,708 | 117,326 | 110,488 | 104,248 | 105,195 | 101,177 | 127,481 | 125,132 | 122,788 | 121,920 1 | 104,609 | 104,497 | 104,466 | 103,848 |
| | Construction materials, supplies, and intermediate prods. | 19,449 | 19,888 | 20,102 | 20,269 | 19,852 | 18,765 | 18,224 | 18,310 | 18,085 | 19,655 | 20,047 | 20,193 | 20,230 | 18,427 | 18,426 | 18,295 | 18,270 |
| | Other materials and supplies and intermediate products | 72,390 | 70,858 | 919,69 | 877,89 | 64,037 | 60,315 | 57,186 | 55,813 | 55,826 | 71,772 | 71,529 | 70,166 | 68,588 | 56,768 | 56,679 | 56,023 | 55,910 |
| | Supplementary series: Household durable goods industries tries. Capital goods industries. Nondefense. Defense. | 3,652 138,749 98,460 40,289 | 3,546 136,464 96,767 39,697 | 3,431 134,172 95,021 39,151 | 3,546 134,393 94,768 39,625 | 3,486 127,402 90,712 36,690 | 3,389 120,899 85,893 35,006 | 3,135 113,340 82,633 30,707 | 2,796 114,138 82,265 31,873 | 2,702 110,365 79,490 30,875 | 3,973 138,857 99,158 39,699 | 3,905 136,601 97,495 39,106 | 3,767 134,046 94,950 39,096 | 3,589 132,509 93,488 39,021 | 3,403 113,535 83,254 30,281 | 3,438 112,999 82,204 30,795 | 3,131 113,098 81,849 31,249 | 2,828 112,721 81,310 31,411 |
| | | | | | | | | INI | INDUSTRY GROUPS | AND | INDUSTRIES | | | | | | | |
| | Durable goods industry: | | | | | | | | | | | | | | | | | |
| 32 | Stone, clay and glass | 2,743 | 2,801 | 2,872 | 2,928 | 2,887 | 2,640 | 2,473 | 2,467 | 2,360 | 2,748 | 2,824 | 2,912 | 2,975 | 2,477 | 2,479 | 2,469 | 2,507 |
| 331 | P. | 24,677 | 23,760 | 23,232 | 23,043 | 20,866 | 18,513 | 17,852 | 17,014 | 17,322 | 23,913 15,578 | 23,979 | 23,372 15,572 | 23,307 | 17,306 | 17,657 | 17,225 | 17,215 |
| 333-0,9 | Monterrous and other primary metal products | 6,702 | 6,421 | 6,184 | 6,158 | 969,5 | 5,350 | 5,073 | 4,829 | 2,067 | 6,481 | 6,427 | 6,215 | 6,281 | 4,903 | 5,025 | 4,875 | 4,926 |
| 34 | Fabricated metal products | 24,849 | 24,993 | 24,941 | 24,956 | 24,213 | 23,203 | 22,733 | 23,047 | 23,051 | 25,335 | 25,222 | 25,062 | 24,852 | 23,187 | 23,048 | 23,011 | 22,962 |
| 35 351 353 | Machinery, except electrical, total. Engines and turbines. | 50,892 | 50,266 | 50,268 16,203 | 50,055 | 49,044 | 47,221 | 45,792 | 45,135 | 44,536 | 51,096 | 50,786 | 50,488 | 49,911 16,389 | 45,965 16,423 | 45,823 | 45,251 | 45,015 |
| 354 | material nanding equip- ment | 7,524 4,771 6,702 | 7,466 4,668 6,740 | 7,689 4,563 6,792 | 7,577 4,330 6,741 | 7,369 | 6,805 3,545 6,689 | 6,419 3,320 6,660 | 6,331 3,160 6,752 | 6,510 2,950 6,608 | 7,577 4,819 6,789 | 7,608 | 7,789 | 7,645 4,295 6,694 | 6,461 3,354 6,746 | 6,480 3,327 6,736 | 6,360 | 6,389 3,136 6,700 |
| See | See footnotes at end of table. | | | | | | | | | | | | | | | | | |

Table 3.--VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--CONTINUED

(Millions of dollars)

Perclininary. Revised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Houschold durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous

Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.

Nondefense products - Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and ITV and electronic communication equipment, aircraft and aircraft parts, and ordnance.

Defense perions of shipbuilding and relative and are filled by large defense contractors in the following industries: Ordnance, communication equipment, aircraft parts, and shipbuilding. I

data are comparable to those published annually in the MA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Deginning in 1976, the fiscal year for the Federal Government probably affected the awarding of contracts and other financial arrangements. Although the impact of this change is not known, the use of previously established seasonal factors would have substantially distorted the current data since these seasonal factors reflect historical Government purchasing patterns. Therefore, beginning in July 1977, new composite seasonal factors were developed by combing the existing end of fiscal year information with data for the previous calendar quarter (i.e., one quarter preceding the end of the fiscal year information with data for the previous calendar quarter (i.e., one quarter preceding the end of the fiscal year information for advantable defense industries. This method of calculating the seasonal factors will be used until a sufficient amount of data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the defense Industries.

Table 4.--VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES

| | | | | | | | (MILLIONS | of dollar | S) | | | | | | | | | |
|------------------|---|---|--------------------------|--------------------|--------------------------|---------------------|--------------------------|--------------------------|---|--------------------------|--------------------------|---------------------------|--------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | | | | Seasona | Seasonally adjusted | þ | | | | | | Without | | seasonal adjustment 1 | ent 1 | | |
| | | | Monthly | hly | | | Ö | Quarterly | | | | | | Monthly | hly | | | |
| SIC | Industry | *************************************** | Anice | Tis I w | Tube | - | TV. | 111 | ======================================= | - | | Last 4 m | months | | Last | 4 months | (a year ago) | |
| | | 1978 ^p | 1978r | 1978 | 1978 | 1978 | 1977 | 1977 | 1977 | 1977 | Sept. 1978P | Aug. 1978 ^r | July 1978 | June 1978 | Sept. 1977 | Aug. 1977 | July 1977 | June 1977 |
| | | | | | | | ALL M | MANUFACTURING, | NG, DURABLE | AND | NONDURABLE GOODS, | S, TOTAL | | | | | | |
| | All manufacturing industries: Total | 194,071 | 192,882 | 191,167 | 189,557 | 183,860 | 179,714 | 179,011 | 176,648 | 172,536 | 191,886 | 191,281 | 189,439 | 188,846 | 177 031 | 176,603 | 175,611 | 175.760 |
| | Total, excluding trans- | 170,399 | 169,482 | 168,157 | 166,773 | 161.733 | 158,456 | 157,519 | 155,499 | 151,811 | | 167,939 | 166,993 | 166,467 | 155,428 | 155,307 | 155,175 | 155,177 |
| | Total for industries with unfilled orders | 132,518 | 131,599 | 130,106 | 128,656 | 124,226 | 120,701 | 119,997 | 118,141 | 115,801 | 131,241 | 131,013 | 129,637 | 129.047 | 118,884 | 119,043 | 118,367 | 118,509 |
| | Durable goods industries, total. | 126,006 | 125,206 | 123,830 | 122,688 | 118,725 | 115,424 | 114,467 | 112,536 | 110,579 | 124,729 | 124,430 | 123,160 | 122.891 | 113.341 | 113,240 | 112,537 | 112.726 |
| | Durable goods with unfilled orders | 116,902 | 116,035 | 114,475 | 113,267 | 109.358 | 106,263 | 105,640 | 103,771 | 101,812 | 115,785 | 115,310 | 113.799 | 113,415 | 104,680 | 104,522 | 103,716 | 103,908 |
| | Nondurable goods industries, total | 68,065 | 67,676 | 67,337 | 698.99 | 65.135 | 64.290 | 979, 944 | 63,932 | 61,957 | 67,157 | 66,851 | 66,279 | 65,955 | 63,690 | 63,363 | 63.074 | 63,034 |
| | Nondurable goods with unfilled orders | 15,616 | 15,564 | 15,631 | 15,389 | 14,868 | 14,438 | 14,357 | 14,370 | 13,989 | 15,456 | 15,703 | 15,838 | 15,632 | 14.204 | 14,521 | 14,651 | 14,601 |
| | | | | | | | | MARKET CA | CATEGORIES A | AND SUPPLEM | SUPPLEMENTAL SERIES | ES | | | | | | 1 |
| | Market categories: Home goods and apparel Consumer staples | 16,934 | 16,859 | 16.707 | 16,276 | 15,947 | 15,340 | 15,260 24,626 | 15,253 | 14,974 | 16,731 | 16,923 25,114 | 17,012 24,413 | 17,008 | 15,094 | 15,430 | 15,607 | 15,916 |
| | Equipment and defense pro- ducts, except automotive Automotive equipment | 48,075 | 47,790 | 47,339 | 46,761 | 44,645 | 42,836 | 41,729 | 40,693 | 40,095 | 47,573 | 47,405 | 47,074 | 46,756 | 41,305 | 41,051 | 40,840 | 40 700 |
| | plies, and intermediate | 16,476 | 16,372 | 16,299 | 16.293 | 15,853 | 14,935 | 14,777 | 14.535 | 14,594 | 16,355 | 16,353 | 16,284 | 16,224 | 14,674 | 14,620 | 14.633 | 14,489 |
| | Other materials and supplies and intermediate products | 75,780 | 75,840 | 75,350 | 74,555 | 73,002 | 72,553 | 72,362 | 71,752 | 69,752 | 4,499 | 75,109 | 75.127 | 74.576 | 71,150 | 71,721 | 72,034 | 71,765 |
| | Supplementary series: Household durable goods industries. Capital goods industries | 8,703 52,809 | 8,635 52,620 | 8.574 | 8,307 | 8,116 | 7,771 | 7,814 | 7,747 | 7,539 | 8,532 52,305 | 8,652 | 8,682 | 8,581 | 7,673 | 7,836 | 7,861 | 7,993 |
| | Nondefense | 46,025 | 45,743 | 45,227 | 44,583 | 42,151 | 40,294 | 39,231 6,313 | 38,348 6,317 | 37,675 6,251 | 45,480 | 45,333 | 166,991 | 44,583 | 38,775 | 38,518 | 38,210 6,403 | 38.359 |
| | | | | | | | | IND | INDUSTRY GROUPS AND INDUSTRIES | S AND INDU | STRIES | | | | | | | |
| 32 | Durable goods industries; Stone, clay, and glass products | 4,739 | 4,688 | 709'7 | 4,569 | 4,530 | 4.259 | 4,219 | 4.123 | 900'7 | 4,593 | 4,627 | 4.628 | 4,608 | 907 | 4,134 | 4,209 | 4,163 |
| 33 | Primary metals, total | 17,717 9,528 | 17,546 | 17,335 | 17,209 | 16,828 | 17.779 | 18,082 | 17,961 | 17,693 | 17,359 | 17,315 | 17,293 | 17,277 | 17,730 | 17,858 | 18,070 | 18,020 |
| 333-0 | | 926 9 | 6,953 | 6,987 | 7,000 | 6,893 | 6.826 | 6,685 | 6,561 | 6,449 | 6,816 | 6,863 | 7.008 | 7.056 | 6,536 | 6,578 | 099'9 | 6,615 |
| 34.1 | Fabricated metal prod., total. | 16,362 | 16,425 | 16,313 | 16,130 | 15,573 | 14,760 | 14,732 | 14,415 | 14,105 | 16,274 | 16,375 | 16,382 | 16,197 | 14,639 | 14,676 | 14,635 | 14,484 |
| | drums | 1,193 | 1,292 | 1.353 | 1,398 | 1,382 | 1,395 | 1,299 | 1,248 | 1,235 | 1,113 | 1,291 | 1,445 | 1,513 | 1,212 | 1,292 | 1,360 | 1.350 |
| 35 351 352 | Machinery, except electrical, total. Engines and turbines. | 29,504 2,291 2,373 | 29,374 2,343 2,354 | 29.062 2,332 2,423 | 28.766 2,388 2,460 | 27,400 2,226 2,499 | 26,379 2,083 2,505 | 25,431 2,059 2,491 | 25,060 2,119 2,415 | 24,600 1,975 2,345 | 29,031 2,267 2,280 | 29,010 2,311 2,302 | 28,793 2,293 2,386 | 28.794 2.373 2,468 | 25,023 2,039 2,395 | 24,998 2,032 2,431 | 25,002 2,037 2,455 | 25,092 2,106 2,425 |
| 354 356 | Construction, mining, and material handling equipment Metalworking machinery General industrial machinery | 6,756 1,873 3,072 | 6,609 1,870 3,020 | 6.493 | 6,322 1,852 2,899 | 5.953 | 5,840 1,775 2.731 | 5,602 | 5,473 | 5,555 1,690 2,392 | 6,601 1,862 3,026 | 6,496 1,871 3,002 | 6,415 | 6.315 1.831 2,939 | 5,473 | 5,428 | 5,413 | 5,467 1,693 2,559 |
| See | See footnotes at end of table. | 1 | | | | | | | - | | | - | | | | | | |

| Particular Par | | | | | | Seasonally | lly adjusted | 70 | | | | | | and 4.9. | | | - | | |
|--|------|--|-----------------------------------|--|--------|----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | and and art | | | | | | | with | out season | al adjustm | ent. | | |
| 1,000 1,00 | | | | Mon | thly | | | G, | uarterly | | | | | | Mont | hly | | | |
| 1, 10, 10, 10, 10, 10, 10, 10, 10, 10, | | Industry | Sept. | Aug. | July | June | I | VI | . III | II | - | | | onths | | Last | 4 | (a year | 0 |
| 1,5,9,9,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0 | | | 1978P | 1978r | 1978 | 1978 | 1978 | 1977 | 1977 | 1977 | 1977 | Sept. 1978P | Aug. 1978 ^r | July 1978 | June 1978 | Sept. 1977 | Aug. 1977 | July 1977 | June 1977 |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | | | | | | | , | | INDUSTRY | | | SS | | | | _ | | | |
| 1,000 1,00 | Щ | Electrical machinery, total Electrical transmission | 16,982 | 16,860 | 16,758 | | 16,023 | 15,433 | 15,173 | 14,884 | 14,404 | 16,773 | 16,844 | 16,817 | 16,925 | 14,999 | | 14,914 | 15,151 |
| 1,5,190 5,352 2,503 2,5,03 2,4,95 2,4,91 4,911 4,001 4,001 4,011 | | and industrial apparatus | 3,161 | 3,142 | | | 2,976 | 2,959 | 2,862 | 2,824 | 2,773 | 3,125 | 3,122 | 3,090 | 3,155 | 2,830 | 2,803 | 2,814 | 2,828 |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | | Radio and TV. Communication equipment Electronic components | 1,008 5,389 2,520 | 5,299 2,525 | | | 1,029 4,961 2,495 | 964 4,819 2,413 | 921 4,601 2,467 | 4,378 2,412 | 4,193 2,368 | 1,024 | 1,042 5,304 2,520 | 1,072 5,183 2,544 | 1,068 | 937 | 987 | 4,410 | 1,822 951 4,402 2,425 |
| 1,736 1,651 1,702 1,815 1,131 1,034 1,089 1,0199 1,035 1,040 1,731 1,731 1,731 1,139 1,1 | Tr | ansportation equipment, otal | 23,672 8,516 | 23,400 | | 22,784 | 22,127 8,019 | 21,258 | 21,492 | 20,969 | 20,725 | 23,772 | 23,342 | 22,446 | 22,379 | 21,603 8,103 | 21,296 | 20,436 | 20,583 |
| 6,381 6,282 6,193 6,293 <th< td=""><td></td><td>parts</td><td>11,536</td><td>11,651</td><td>11,591</td><td>-</td><td>10,554</td><td>10,089</td><td>10,190</td><td>10,065</td><td>10,076</td><td>11,576</td><td>11,644</td><td>11,499</td><td>11,128</td><td>10,224</td><td>10,234</td><td>10,081</td><td>9,971</td></th<> | | parts | 11,536 | 11,651 | 11,591 | - | 10,554 | 10,089 | 10,190 | 10,065 | 10,076 | 11,576 | 11,644 | 11,499 | 11,128 | 10,224 | 10,234 | 10,081 | 9,971 |
| 10,649 10,621 10,547 10,549 10,157 1,526 1,527 1,643 1,640 1,640 1,728 1,729 | | Shippulding and military tank vehicles | 1,743 | 1,704 | 1,816 | 1,761 | 1,840 | 1,618 | 1,579 | 1,435 | 1,446 | 1,751 | 1,731 | 1,883 | 1,797 | 1,598 | | 1,476 | 1,448 |
| 16,959 16,674 16,525 16,643 15,968 15,755 16,268 16,614 16,099 16,794 16,262 15,622 15,522 16,092 15,794 16,289 1,406 1,420 1,4 | 1 - | struments and related products, total | 6,381 4,100 1,798 | 6,282 4,041 1,756 | | | 6,087 3,880 1,703 | 5,727 3,698 1,584 | 5,642 3,627 1,569 | 5,436 3,463 1,529 | 5,410 3,400 1,517 | 6,359 4,059 1,812 | 6,303 4,017 1,791 | 6,237 3,979 1,773 | 6,279 3,997 1,789 | 5,625 3,591 1,582 | 5,617 3,543 1,623 | 5,580 3,532 1,592 | 5,506 3,492 1,558 |
| 16,959 16,674 16,225 16,643 15,968 15,575 16,268 16,614 16,099 16,794 16,265 15,622 15,582 16,092 15,701 15,431 15,89 1,420 1,428 1,422 2,944 1,482 2,944 1,482 1,584 1,482 1,584 1,584 1,482 1,584 1,584 1,482 1,584 1,584 1,482 1,584 1,584 1,584 1,584 1,482 1,584 1,5 | E T | .l other durable goods .ndustries | 10,649 | 10,631 | 10,547 | - | 10,157 | 9,829 | 969'6 | 889'6 | 9,636 | 10,568 | 10,614 | 10,564 | 10,432 | 9,631 | 9,634 | | 9,727 |
| 3,466 3,386 3,486 3,386 3,386 3,486 3,486 3,386 3,486 3,486 3,486 3,486 3,486 3,486 3,486 <th< td=""><td>None</td><td>durable goods industries; ood and kindred products, total. Mest products Beverages. Fats and oils.</td><td>16,959 1,582 3,280 1,361</td><td>16,674 1,523 3,109 1,421 9,315</td><td></td><td></td><td>15,968 1,386 2,982 1,564 8,826</td><td>15,575 1,286 2,941 1,357 8,836</td><td>16,268 1,398 3,038 1,394 9,286</td><td>16,614 1,423 2,901 1,945 9,138</td><td>16,099 1,384 2,893 1,998 8,710</td><td>16,794 1,539 3,228 1,046 9,670</td><td>16,265 1,466 3,019 1,180 9,249</td><td>15,662 1,440 2,973 1,238 8,698</td><td>15,582 1,437 2,999 1,372 8,480</td><td>16,092 1,358 2,990 1,072 9,486</td><td>15,701 1,340 2,877 1,255 9,009</td><td>15,431 1,426 2,821 1,612 8,321</td><td>15,566 1,442 2,841 1,804 8,253</td></th<> | None | durable goods industries; ood and kindred products, total. Mest products Beverages. Fats and oils. | 16,959 1,582 3,280 1,361 | 16,674 1,523 3,109 1,421 9,315 | | | 15,968 1,386 2,982 1,564 8,826 | 15,575 1,286 2,941 1,357 8,836 | 16,268 1,398 3,038 1,394 9,286 | 16,614 1,423 2,901 1,945 9,138 | 16,099 1,384 2,893 1,998 8,710 | 16,794 1,539 3,228 1,046 9,670 | 16,265 1,466 3,019 1,180 9,249 | 15,662 1,440 2,973 1,238 8,698 | 15,582 1,437 2,999 1,372 8,480 | 16,092 1,358 2,990 1,072 9,486 | 15,701 1,340 2,877 1,255 9,009 | 15,431 1,426 2,821 1,612 8,321 | 15,566 1,442 2,841 1,804 8,253 |
| 5,846 5,544 5,542 5,445 5,294 5,303 5,399 5,265 5,571 5,566 5,563 5,571 5,566 5,563 5,563 5,291 5,869 5,664 5,202 5,634 5,293 5,391 5,782 5,802 5,865 5,603 5,904 5,203 5,904 5,203 5,904 5,203 5,904 5,203 5,904 5,203 5,904 5,203 5,904 5,203 5,904 5,203 5,904 5,203 5,904 5,203 5,904 5,203 5,904 5,203 5,904 5,203 5,004 1,508 1,509 1,500 1, | Ğ. | bacco products | 3,469 | 3,359 | | 3,501 | 3,405 | 3,524 | | 3,486 | 3,399 | 3,334 | 3,117 | 3,057 | 3,287 | 3,390 | 3,204 | 3,163 | 3,273 |
| 5,895 5,846 5,664 5,622 5,634 5,787 5,787 5,782 5,963 5,964 2,002 2,107 2,103 2,107 2,114 2,114 2,002 2,002 2,106 2,107 2,114 2,114 1,942 1,934 2,002 2,002 2,114 2,106 2,137 2,108 1,641 1,641 1,642 1,642 1,735 1,726 1,698 1,600 1,641 1,641 1,642 1,642 1,735 1,736 2,108 1,641 1,641 1,642 1,642 1,735 1,736 2,108 1,641 1,641 1,642 1,642 1,642 1,642 1,642 1,641 1,641 1,641 1,641 1,641 1,641 1,641 1,641 1,641 1,641 1,641 1,641 1,641 1,641 1,641 1,641 1,641 1,641 1,641 1,642 1,641 1,641 1,642 1,642 1,643 1,642 1,644 1,642 4,444 <th< td=""><td>Ţe</td><td>xtile mill products</td><td>5,646</td><td>5,554</td><td>5,542</td><td></td><td>5,445</td><td>5,294</td><td>5,303</td><td>5,399</td><td>5,265</td><td>5,571</td><td>5,566</td><td>5,563</td><td>5,553</td><td>5,231</td><td>5,364</td><td>5,413</td><td>5,480</td></th<> | Ţe | xtile mill products | 5,646 | 5,554 | 5,542 | | 5,445 | 5,294 | 5,303 | 5,399 | 5,265 | 5,571 | 5,566 | 5,563 | 5,553 | 5,231 | 5,364 | 5,413 | 5,480 |
| 15, 300 15, 182 15, 054 14, 861 14, 426 14, 134 4, 139 4, 13, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14 | £ 5 | pper and allied products, cotal. Pulp, paper, etc Paperboard containers All other paper containers. | 5,895 1,965 1,725 2,205 | 5,816 2,009 1,730 2,077 | | 5,869 2,107 1,681 2,081 | 5,664 2,122 1,608 1,934 | 5,622 2,099 1,590 1,933 | 5,634 2,137 1,628 1,869 | 5,547 2,086 1,625 1,836 | 5,331 2,046 1,542 1,743 | 5,782 1,934 1,694 2,154 | 5,802 2,002 1,735 2,065 | 5,963 2,066 1,762 2,135 | 5,904 2,118 1,698 2,088 | 5,529 2,101 1,600 1,828 | 5,628 2,136 1,641 1,851 | 5,624 2,114 1,649 1,861 | 5,585 2,100 1,642 1,343 |
| ies. 4,610 4,532 4,510 4,411 4,334 4,312 4,208 4,148 3,968 4,522 4,492 4,474 4,134 4,129 4,193 4,146 1,180 1 | 4 | otal | 15,300 | 15,182 | 15,054 | - | 14,426 | 14,134 | 13,949 | 13,384 | 12,942 | 14,916 | 14,933 | 14,909 | 14,637 | 13,606 | 13,541 | 13,480 | 13,205 |
| 5.372 5,512 5,530 5,397 5,591 6,992 5,926 5,627 5,217 5,450 5,534 5,534 5,523 5,374 6,018 5,856 5,747 5,441 4,461 4,465 4,180 4,181 6,018 5,856 5,747 10,863 10,998 10,841 10,602 10,235 9,868 9,637 9,655 9,590 10,869 11,169 11,160 11,111 9,644 9,875 10,048 1 | | cept pigments | 4,610 | 4,532 | 4,510 | | 4,334 | 4,312 | 4,208 | 4,148 | 3,968 | 4,522 | 4,492 | 4,474 | 4,340 | 4,129 | 4,193 | 4,146 | 4,085 |
| 4,561 4,581 4,521 4,521 4,281 4,281 4,284 4,220 4,114 4,441 4,445 4,547 4,189 4,189 4,189 4,189 10,884 10,841 10,602 10,235 9,868 9,637 9,655 9,590 10,869 11,169 11,160 11,111 9,644 9,875 10,048 1 | Pe | troleum and coal products | 5,372 | 5,512 | 5,530 | 5,397 | 5,591 | 5,992 | 5,926 | 5,627 | 5,217 | 5,450 | 5,534 | 5,523 | 5,374 | 6,018 | 5,856 | 5,747 | 5,603 |
| 10,863 10,998 10,841 10,602 10,235 9,868 9,637 9,655 9,590 10,869 11,160 11,160 11,160 11,111 9,644 9,875 10,048 | п | e.c | 4,561 | 4,581 | 4,521 | | 4,401 | 4,281 | 4,296 | 4,220 | 4,114 | 4,441 | 4,465 | 4,442 | 4,507 | 4,180 | 4,185 | 4,168 | 4,208 |
| | Al | 1 other nondurable goods ndustries | 10,863 | 10,998 | | - | 10,235 | | | | | 10,869 | 11,169 | 11,160 | 11,111 | 9,644 | ,87 | 10,048 | 10,114 |

Preliminary.

**Preliminary are see the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

*The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture: kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and clocks; and miscellaneous

9 personal goods.

Capital goods industries = The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.

Nondefense products— Machiner, except electrical (excluding farm machinery and equipment and machinery dexcluding household appliances, radio and TV and electronic components), and the nondefense products— Stabbuilding and repairing and railroad equipment, aircraft and aircraft parts, and ordnance.

Defense products— Based on separate reports on defense work filled by large defense contractors in the following industries; Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the Ma-175, Shipments of Defense Oriented Industries, for the specified industries.

Table 5.--VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP

| | | | | Seasona | (MI. | o sucril | dollars) | | | | | Withou | ut seasona] | ad tus tmp | | | |
|--|----------------|---------------|--------------|--------------|-----------|------------|----------|-----------|-----------|----------------|------------------------|--------------|--------------|------------|------------|--------------|--------------|
| | | Monthly | thly | | | 9 | uarterly | | | | | | Month] | (1) | | | |
| Industry | | | | | | | | | | | Loct A mo | ntha | | Last | 4 months (| Long woon | |
| | Sept. 1978P | Aug. 1978* | July 1978 | June 1978 | 1 1978 | 1V 1977 | 111 | 1111977 | 1977 | Sept. 1978P | Aug. 1978r | July 1978 | June 1978 | Sept. | Aug. | July 1977 | June 1977 |
| | | | | | | | | | POTAL | | | | 1 | | | | |
| All manufacturing industries, total | 194,071 | 192,882 | 191,167 | 189,557 | 183,860 | 179,714 | 119,011 | | 172,536 | 191,886 | 191,281 | 189,439 | 188,846 | 177,031 | 176,603 | 75,611 | 175,760 |
| Durable goods industries, total | | 125,206 | | 122,688 | 118,725 | 115,424 | 114,467 | 112,536 | 110,579 | 124,729 | 124,430 | 123,160 | 122,891 | 113,341 | 113,240 | 112,537 | 112,726 |
| Primary metals | | | | | 16,828 | 17,779 | 18,082 | | 17,693 | 17,359 | 17,315 | 17,293 | 17,277 | 17,730 | 17,858 | 18,070 | 4,163 |
| Fabricated metals | 16,362 | 16,425 | | | 27,400 | 14,760 | 14,732 | | 14,105 | 16,274 | 16,375 | 16,382 | 16,197 | 14,639 | 14,676 | 14,635 | 14,484 |
| Electrical machinery | | | | | 16,023 | 15,433 | 15,173 | | 14,404 | 16,773 | 16,844 | 16,817 | 16,925 | 14,999 | 15,027 | 14,914 | 15,151 |
| Transportation equipment | | | | | 6,087 | 5,727 | 5,642 | | 5,410 | 6,359 | 6,303 | 6,237 | 6,279 | 5,625 | 5,617 | 5,580 | 5,583 |
| All other durable goods industries | | | | | 10,157 | 9,829 | 969'6 | | 9,636 | 10, 568 | 10,614 | 10,564 | 10,432 | 9,631 | 9,634 | 169'6 | 9,727 |
| Nondurable goods industries, total | | 67,676 | | | 65,135 | 64,290 | 13 949 | | 61,957 | 67,157 | 66,851 | 66,279 | 65,955 | 63,690 | 63,363 | 63,074 | 63,034 |
| Petroleum and coal products | | | | | 5,591 | 5,992 | 5,926 | | 5,217 | 5,450 | 5,534 | 5,523 | 5,374 | 6,018 | 5,856 | 5,747 | 5,603 |
| Rubber and plastics products, n.e.c All other nondurable goods industries | 4,561 | | 4,521 | 4,521 | 4,401 | 4,281 | 4,296 | | 4,114 | 4,441 | 4,465 | 4,442 | 4,507 | 4,180 | 4,185 | 4,168 | 4,208 |
| | | | | | | | | MATERIALS | AND SUPPL | 1ES | | | - | | | | . |
| | 707 77 | 276 77 | 040 27 | 66 001 | 64. 377 | 63 831 | 67. 700 | 67. 027 | 077 67 | 270 27 | 670 77 | 076 37 | 000000 | 020 | | 0.0 | 000 |
| All manufacturing industries, total | /05//9 | 195,30 | 65,872 | 186'59 | 1/7 40 | 170,00 | 66/450 | 152,40 | 07,000 | 6/6,99 | 740,00 | 65,349 | 65,252 | 64,375 | 64,323 | 618, 69 | 64,082 |
| Stone, clay, and glass products | 41,258 | 40,343 | 39,727 | 1.736 | 1,692 | 1,706 | 1,688 | 1.622 | 1,565 | 1,818 | 1,795 | 39,611 | 39,405 | 39,139 | 38,969 | 38,421 | 38,416 |
| primary metals | 6,559 | | 6,394 | 6,444 | 6,393 | 7,141 | 7,373 | 7,448 | 7,358 | 6,559 | 6,516 | 6,366 | 6,424 | 7,369 | 7,383 | 7,447 | 7,428 |
| Fabricated metals | 5,991 | 5,920 | 5,816 | 5,843 | 5,634 | 5,515 | 5,875 | 6,899 | 5,685 | 5,984 | 5,913 | 5,894 | 5,764 | 5,869 | 5,916 | 5,984 | 5,936 |
| Electrical machinery | 4,972 | | 4,873 | 4,819 | 4,581 | 4,520 | 4,520 | 4,397 | 4,276 | 4,917 | 668'5 | 076 4 | 4,844 | 4,476 | 4,498 | 4,488 | 4,417 |
| Transportation equipment | 7,276 | | 6,541 | 6,736 | 6,782 | 6,733 | 6,843 | 6,613 | 5,773 | 7,470 | 6,809 | 6,213 | 6,612 | 7,040 | 6,863 | 6,098 | 6,481 |
| Instruments and related products All other durable goods industries | 4,469 | 4,412 | 4,371 | 4,247 | 4,108 | 4,010 | 3,933 | 3,937 | 3,852 | 4,491 | 0 9 8 4 0 7 4 4 4 9 | 4,385 | 4,201 | 3,957 | 3,937 | 3,994 | 1,733 |
| Nondurable goods industries, total | 26,149 | | | 26,314 | 25,730 | 25,102 | 25,727 | 26,162 | 25,564 | 25,682 | 25,626 | 25,738 | 25,847 | 25,236 | 25,354 | 25,398 | 25,666 |
| Chemicals and allied products | 5,445 | | | 5,440 | 5,226 | 5,084 | 5,102 | 5,036 | 4,880 | 5,458 | 5,442 | 5,458 | 5,328 | 5,112 | 5,045 | 4,984 | 4,943 |
| Petroleum and coal products | 1,447 | | | 1,427 | 1,480 | 1,437 | 1,436 | 1,411 | 1,420 | 1,398 | 1,394 | 1.378 | 1,463 | 1,389 | 1,477 | 1,425 | 1,450 |
| All other nondurable goods industries | 17,781 | | | 18,013 | 172,71 | 17,208 | 17,792 | 18,278 | 17,763 | 17,315 | 17,276 | 17,417 | 17,616 | 17,306 | 17,383 | 17,536 | 17,830 |
| | | | | | | | | WORK 11 | N PROCESS | | | | | | | | |
| All manufacturing industries, total | 63.660 | 63.648 | 63.111 | 1961.9 | 59.699 | 56.980 | 56.238 | 54.746 | 55.080 | | 63,582 | 62 884 | 61 761 | 56 022 | 55 791 | 55 215 | 57. 576 |
| goods industries, total | | | 52,763 | 51.684 | 167.67 | 46 864 | 766.92 | 788 77 | 766 57 | 52,923 | 53,186 | 52 508 | 51 502 | 770,022 | 72,72 | 72,523 | 74,737 |
| Stone, clay, and glass products | 691 | | , | 969 | 684 | 650 | 079 | 909 | 592 | 658 | 678 | 670 | 706 | 610 | 615 | 909 | 613 |
| Primary metals | 6,233 | | 2 | 5,814 | 5,690 | 5,760 | 5,949 | 5,881 | 5,958 | 6, 102 | 6,610 | 080,9 | 5,843 | 5,821 | 6,021 | 6,038 | 5,907 |
| Nonelectrical machinery | 13,497 | | 13, | 13,048 | 12,457 | 11,803 | 11,365 | 11,080 | 10,886 | 13,385 | 13,221 | 12,899 | 12,980 | 11,275 | 11,120 | 10,887 | 11,024 |
| Electrical machinery | 7,636 | 13.722 | 7,456 | 7,452 | 7,259 | 6,835 | 6,690 | 6,527 | 6,291 | 7,596 | 13,651 | 7,485 | 7,505 | 6,661 | 6,634 | 6,545 | 6,576 |
| | 2,958 | | 2 | 2,827 | 2,768 | 2,578 | 2,472 | 2,267 | 2,268 | 2,941 | 2,958 | 2,882 | 2,867 | 2,457 | 2,418 | 2,374 | 2,302 |
| All other durable goods industries | 2,353 | | 2 , | 2,350 | 2,213 | 2,170 | 2,121 | 2,053 | 2,035 | 2,384 | 2,406 | 2,370 | 2,287 | 2,154 | 2,117 | 2,041 | 1,998 |
| Chemicals and allied products | 2,482 | _ | 2,327 | 2 262 | 10,208 | 2 264 | 110,011 | 9,862 | 9,784 | 2,350 | 2,349 | 10,376 | 10,259 | 10,016 | 9,959 | 9,983 | 9,842 |
| Petroleum and coal products | | 1,281 | 1,328 | 1,286 | 1,385 | 1,374 | 1,402 | 1,322 | 1,293 | 1,298 | 1,287 | 1,360 | 1,322 | 1,410 | 1,363 | 1,395 | 1,361 |
| Kubber and plastics products, n.e.c All other nondurable goods industries | 6,032 | | 5,929 | 5,967 | 5,871 | 5,775 | 5,713 | 5,749 | 5,753 | 6,072 | 966,5 | 5,955 | 5,920 | 696 | 5,806 | 5.802 | 5.692 |
| | | | | | | | | FINIS | HED GOODS | | | | - | | | | |
| All manufacturing industries, total | 63.004 | 62.867 | 62.184 | 61.615 | 59.884 | 58.914 | 57.974 | 56.889 | 54.786 | 61.503 | 61.657 | 61.206 | 61 833 | 56 631 | 56 488 | 26 574 | 57 106 |
| | 31 570 | 31 567 | 11 170 | 31 337 | 20,687 | 20,873 | 29 169 | 080 00 | 20 178 | | 30,828 | 21 07.1 | 21 ORX | 20,000 | 20,737 | 600 | 00 4, 10 |
| Stone, clay, and glass products | 2,214 | | 2,186 | 2,137 | 2,154 | 1,903 | 1,890 | 1,898 | 1,849 | | 2,154 | 2,204 | 2,175 | 1,807 | 1,859 | 1,984 | 1,935 |
| Primary metals | 4,925 | | 4,943 | 4,951 | 4,745 | 4,878 | 4,761 | 4,632 | 4,376 | | 4,737 | 4,847 | 5,010 | 4,539 | 4,454 | 4,585 | 4,686 |
| Nonelectrical machinery | 7,680 | | 7,805 | 7,706 | 7,446 | 7,231 | 7,005 | 7,081 | 6,870 | | 7,594 | 7,677 | 7,812 | 96,796 | 996'9 | 7,119 | 7,174 |
| | 4,374 | | 4,429 | 4,357 | 4,183 | 6,079 | 3,963 | 3,960 | 3,838 | | 4,345 | 4,392 | 4,576 | 3,862 | 3,896 | 3,881 | 4,159 |
| Transportation equipment | 2,998 | 2,915 | 2,771 | 2,922 | 3,079 | 2,870 | 2,931 | 2,837 | 2,606 | | 2,882 | 2,701 | 2,871 | 2,845 | 2,787 | 2,721 | 2,787 |
| All other durable goods industries | 3,827 | | 3,782 | 3,802 | 3,836 | 3,650 | 3,644 | 3,698 | 3,748 | | 3,759 | 3,809 | 3,944 | 3,521 | 3,581 | 3,655 | 3,836 |
| Nondurable goods industries, total | 31,434 | | 30,844 | 30,278 | 29,197 | 29,071 | 28,805 | 27,909 | 26,608 | | 30,829 | 30,165 | 29,849 | 28,435 | 28,051 | 27,692 | 27,527 |
| Petroleum and coal products | 2,636 | 2,794 | 2,806 | 2,684 | 2,720 | 3,181 | 3,088 | 2,894 | 2,504 | 2,754 | 2,853 | 2,785 | 2,589 | 3,219 | 3,017 | 2,928 | 2,791 |
| Rubber and plastics products, n.e.c All other nondurable goods industries | | | 2,300 | 2,325 | 17,275 | 2,205 | 2,212 | 2,094 | 1,930 | | 18,649 | 2,213 | 17,901 | 2,054 | 2,038 | 2,052 | 2,096 |
| Ppreliminary. TRevised. | | | | | | | | | | | | | | | | | |

Table 6.--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT. CHANGES

(Based on seasonally adjusted data)

| | Moi | nth-to-mon | th | Aver | age monthly | rates of ch | ange | Average, | 1973-1977 |
|------------------------------------|------------------------------|-------------------------|-----------------------|------------------------|------------------------|------------------------|--------------------------|-----------------|--------------------|
| | A | 77 | T | | 3 months | | 12 months | | |
| Item and industry group | August- September 1978 | July- August 1978 | June- July 1978 | June- Sept. 1978 | May- August 1978 | April- July 1978 | Sept. 1977 Sept. 1978 | Average rise | Average decline |
| Shipments: | | | | | | | | | |
| All manufacturing industries | -0.0 | +3.9 | -1.4 | +0.8 | +1.2 | -0.4 | +1.1 | +1.5 | -1.2 |
| Durable goods industries, total | +0.3 | +5.3 | -1.6 | +1.3 | +1.7 | -0.6 | +1.3 | +1.8 | -1.9 |
| Nondurable goods industries, total | -0.4 | +2.3 | -1.1 | +0.3 | +0.6 | - 0.2 | +0.9 | +1.7 | -0.7 |
| Total inventories: | | | | | | | | | |
| All manufacturing industries | +0.6 | +0.9 | +0.8 | +0.8 | +0.9 | +1.0 | +0.7 | +1.0 | -0.3 |
| New orders: | | | | | | | | | |
| All manufacturing industries | +0.3 | +6.2 | -3.4 | +1.0 | +0.7 | -1.3 | +1.2 | +2.0 | -1.4 |
| Durable goods industries, total | +1.0 | +9.8 | -5.3 | +1.8 | +0.9 | -2.3 | +1.6 | +2.9 | -2.1 |
| Nondurable goods industries, total | -0.5 | +2.2 | -1.1 | +0.2 | +0.6 | 0.0 | +0.9 | +1.8 | -0.8 |
| Unfilled orders: | | | | | | | | | |
| Durable goods industries, total | +1.6 | +1.4 | 0.0 | +1.0 | +0.9 | +1.2 | +1.7 | +1.6 | -0.9 |

Table 7 .-- RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Rased on seasonally adjusted data)

| (Based o | n seasonal | ly adjuste | d data) | | | | | |
|--|--|--|--|--|--|--|--|--|
| Industry group | Inve | ntoriess | hipments r | atio | Unfill: | ed orders- | shipments backlog) | ratio ¹ |
| Industry group | Sept. 1978 ^p | August 1978r | July 1978 | June 1978 | Sept. 1978 ^p | August 1978 ^r | July 1978 | June 1978 |
| All manufacturing industries, total | 1.52 | 1.51 | 1.55 | 1.52 | 3.26 | 3.22 | 3.33 | 3.29 |
| Durable goods industries, total | 1.83 | 1.82 | 1.90 | 1.85 | 3.83 | 3.79 | 3.96 | 3.90 |
| Stone, clay, and glass products. Primary metals. Fabricated metals. Machinery, except electrical. Electrical machinery. Transportation equipment. Instruments and related products. | 1.26 1.72 2.01 2.45 1.99 1.42 2.37 | 1.24 1.70 1.99 2.48 1.98 1.43 2.31 | 1.26 1.75 2.16 2.54 2.08 1.48 2.40 | 1.23 1.75 2.04 2.52 2.04 1.43 2.32 | 0.80 2.40 3.38 4.60 3.40 8.18 1.77 | 0.80 2.30 3.35 4.65 3.37 8.30 1.71 | 0.85 2.35 3.67 4.78 3.51 8.96 1.80 | 0.85 2.34 3.52 4.78 3.49 8.60 1.68 |
| Nondurable goods industries, total | 1.15 | 1.14 | 1.16 | 1.14 | 0.79 | 0.77 | 0.77 | 0.76 |
| Food and kindred products. Tobacco products. Textile mill products. Paper and allied products Chemicals and allied products. Petroleum and coal products. Rubber and plastics products, n.e.c. | 0.95 3.77 1.53 1.22 1.47 0.59 1.33 | 0.94 3.65 1.50 1.20 1.49 0.62 1.30 | 0.94 4.11 1.52 1.22 1.45 0.64 1.39 | 0.93 3.65 1.52 1.22 1.39 0.63 1.38 | (X) (X) (NA) (NA) (X) (X) | (X) (X) (NA) (NA) (X) (X) (X) | (X) (X) (NA) (NA) (X) (X) | (X) (X) (NA) (NA) (X) (X) (X) |

⁽NA) Not available. Preliminary. Revised. (X) Not applicable.

1 Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response difficulties. These limitations are discussed in greater detail on

pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

To remedy the deficiencies of the presently published levels of unfilled orders, an independent benchmark survey of unfilled orders was initiated in 1977. Results from this survey should be available in the latter part of 1978.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



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